

Appl. No. 10/723,912
Amdt. dated January 24, 2007
Reply to Office action of August 24, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (canceled) A method for dynamically monitoring resources, the method
2 comprising the operations of:
 - 3 (a) receiving at a snapshot module a request from a user to monitor a set of
4 specified resources;
 - 5 (b) requesting, via the snapshot module, a monitor request module to create
6 at least one monitor;
 - 7 (c) creating at least one monitor using the monitor request module;
 - 8 (d) loading into the monitor parameters of the specified resources;
 - 9 (e) creating a set of first objects corresponding to a snapshot of the specified
10 resources based on the loaded parameters, the snapshot representing
11 states of the specified resources at a point in time; and
12 (f) monitoring the first objects using the monitor.

- 1 2. (currently amended) ~~The method of claim 1~~ A method for dynamically
2 monitoring resources, the method comprising the operations of:
 - 3 (a) receiving at a snapshot module a request from a user to monitor a set of
4 specified resources;
 - 5 (b) requesting, via the snapshot module, a monitor request module to create
6 at least one monitor;
 - 7 (c) creating at least one monitor using the monitor request module;
 - 8 (d) loading into the monitor parameters of the specified resources;
 - 9 (e) creating a set of first objects corresponding to a snapshot of the specified
10 resources based on the loaded parameters, the snapshot representing
11 states of the specified resources at a point in time; and

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- 12 (f) monitoring the first objects using the monitor;
- 13 wherein the specified resources include at least one of the following: a file
- 14 object, a registry object, and a set of all processes that are active while the monitor is
- 15 active.
- 1 3. (currently amended) The method of claim [[1]] 2 further comprising:
- 2 (g) providing to the user a link to the monitor.
- 1 4. (currently amended) The method of claim [[1]] 2 wherein operation (e)
- 2 comprises:
- 3 creating an instantiation of the snapshot module.
- 1 5. (currently amended) The method of claim [[1]] 2 further comprising:
- 2 (g) updating the set of first objects upon receiving a notification of a change
- 3 to at least one of the specified resources, using the monitor; and
- 4 (h) logging information related to the change.
- 5 6. (original) The method of claim 5 further comprising:
- 6 (i) creating a new object representing a current state of the specified
- 7 resource having the change; and
- 8 (j) comparing the new object to the corresponding first object representing
- 9 a previous state of the specified resource to determine the change.
- 10 7. (currently amended) The method of claim [[1]] 2 wherein the specified
- 11 resources are of different types, and wherein operation (c) comprises:
- 12 creating different monitors to correspond to the different types of specified
- 13 resources;
- 14 and wherein operation (e) comprises:
- 15 creating different sets of first objects corresponding to the different types of
- 16 specified resources, each of the different sets of first objects representing states of

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17 specified resources of a corresponding type and being maintained by a corresponding
18 monitor.

1 8. (original) The method of claim 7 further comprising:
2 providing to the user a link to each of the monitors.

1 9. (currently amended) The method of claim [[1]] 2 wherein the monitor is
2 implemented as one of a COM object, a thread, and a process.

1 10. (currently amended) The method of claim [[1]] 2 wherein the monitor
2 request module is initiated by a resource monitor service.

1 11. (currently amended) The method of claim 10 wherein, after being
2 initiated, the monitor request module restarts all restartable monitors.

1 12. (currently amended) The method of claim [[1]] 2 further comprising:
2 determining, using the monitor request module, whether the specified resources
3 are already being monitored by an active monitor previously created; and
4 if the specified resources are already being monitored by an active monitor
5 previously created, setting the currently created monitor to error status using the
6 monitor request module.

1 13. (canceled) An article of manufacture comprising:
2 a machine-accessible medium including data that, when accessed by a machine,
3 causes the machine to perform operations comprising:

- 4 (a) receiving at a snapshot module a request from a user to monitor a set of
5 specified resources;
6 (b) requesting, via the snapshot module, a monitor request module to create
7 at least one monitor;
8 (c) creating at least one monitor using the monitor request module;
9 (d) loading into the monitor parameters of the specified resources;

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- 10 (e) creating a set of first objects corresponding to a snapshot of the specified
11 resources based on the loaded parameters, the snapshot representing
12 states of the specified resources at a point in time; and
13 (f) monitoring the first objects using the monitor.

- 1 14. (currently amended) ~~The article of manufacture of claim 13~~ An article
2 of manufacture comprising:
3 a machine-accessible storage medium including data that, when accessed by a
4 machine, causes the machine to perform operations comprising:
5 (a) receiving at a snapshot module a request from a user to monitor a set of
6 specified resources;
7 (b) requesting, via the snapshot module, a monitor request module to create
8 at least one monitor;
9 (c) creating at least one monitor using the monitor request module;
10 (d) loading into the monitor parameters of the specified resources;
11 (e) creating a set of first objects corresponding to a snapshot of the specified
12 resources based on the loaded parameters, the snapshot representing
13 states of the specified resources at a point in time; and
14 (f) monitoring the first objects using the monitor;
15 wherein the specified resources include at least one of the following: a file
16 object, a registry object, and a set of all processes that are active while the monitor is
17 active.

- 1 15. (currently amended) The article of manufacture of claim ~~[[13]]~~ 14
2 wherein the operations further comprise:
3 (g) providing to the user a link to the monitor.

- 1 16. (currently amended) The article of manufacture of claim ~~[[13]]~~ 14
2 wherein operation (e) comprises:
3 creating an instantiation of the snapshot module.

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1 17. (currently amended) The article of manufacture of claim ~~[[16]]~~ 14
2 wherein the operations further comprise:
3 (g) updating the set of first objects upon receiving a notification of a change
4 to at least one of the specified resources, using the monitor; and
5 (h) logging information related to the change.

6 18. (original) The article of manufacture of claim 17 wherein the operations
7 further comprise:
8 (i) creating a new object representing a current state of the specified
9 resource having the change; and
10 (j) comparing the new object to the corresponding first object representing
11 a previous state of the specified resource to determine the change.

12 19. (currently amended) The article of manufacture of claim ~~[[13]]~~ 14
13 wherein the specified resources are of different types, and wherein operation (c)
14 comprises:
15 creating different monitors to correspond to the different types of specified
16 resources;
17 and wherein operation (e) comprises:
18 creating different sets of first objects corresponding to the different types of
19 specified resources, each of the different sets of first objects representing states of
20 specified resources of a corresponding type and being maintained by a corresponding
21 monitor.

1 20. (original) The article of manufacture of claim 19 wherein the operations
2 further comprise:
3 providing to the user a link to each of the monitors.

1 21. (currently amended) The article of manufacture of claim ~~[[13]]~~ 14
2 wherein the monitor is implemented as one of a COM object, a thread, and a process.

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1 22. (currently amended) The article of manufacture of claim ~~[[13]]~~ 14
2 wherein the operations further comprise:
3 initiating the monitor request module using a resource monitor service.

1 23. (original) The article of manufacture of claim 22 wherein the operations
2 further comprise:
3 restarting all restartable monitors using the monitor request module.

1 24. (currently amended) The article of manufacture of claim ~~[[13]]~~ 14
2 wherein the operations further comprise:
3 determining, using the monitor request module, whether the specified resource
4 is already being monitored by an active monitor previously created; and
5 if the specified resource is already being monitored by an active monitor
6 previously created, setting the currently created monitor to error status using the
7 monitor request module.

1 25. (canceled) A system comprising:
2 a processor; and
3 a memory coupled to the processor, the memory containing program code that,
4 when executed by the processor, causes the processor to perform operations
5 comprising:
6 (a) receiving at a snapshot module a request from a user to monitor a set of
7 specified resources;
8 (b) requesting, via the snapshot module, a monitor request module to create
9 at least one monitor;
10 (c) creating at least one monitor using the monitor request module;
11 (d) loading into the monitor parameters of the specified resources;
12 (e) creating a set of first objects corresponding to a snapshot of the specified
13 resources based on the loaded parameters, the snapshot representing
14 states of the specified resources at a point in time; and

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15 (f) monitoring the first objects using the monitor.

1 26. (currently amended) ~~The system of claim 25~~ A system comprising:

2 a processor; and

3 a memory coupled to the processor, the memory containing program code that

4 when executed by the processor, causes the processor to perform operations

5 comprising:

6 (a) receiving at a snapshot module a request from a user to monitor a set of
7 specified resources;

8 (b) requesting, via the snapshot module, a monitor request module to create
9 at least one monitor;

10 (c) creating at least one monitor using the monitor request module;

11 (d) loading into the monitor parameters of the specified resources;

12 (e) creating a set of first objects corresponding to a snapshot of the specified
13 resources based on the loaded parameters, the snapshot representing
14 states of the specified resources at a point in time; and

15 (f) monitoring the first objects using the monitor;

16 wherein the specified resources include at least one of the following: a file
17 object, a registry object, and a set of all processes that are active while the monitor is
18 active.

1 27. (currently amended) The system of claim [[25]] 26 wherein the
2 operations further comprise:

3 (g) providing to the user a link to the monitor.

1 28. (currently amended) The system of claim [[25]] 26 wherein operation

2 (e) comprises:

3 creating an instantiation of the snapshot module.

1 29. (currently amended) The system of claim [[28]] 26 wherein the

2 operations further comprise:

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- 3 (g) updating the set of first objects upon receiving a notification of a change
4 to at least one of the specified resources, using the monitor; and
5 (h) logging information related to the change.

6 30. (original) The system of claim 29 wherein the operations further
7 comprise:

- 8 (i) creating a new object representing a current state of the specified
9 resource having the change; and
10 (j) comparing the new object to the corresponding first object representing
11 a previous state of the specified resource to determine the change.

12 31. (currently amended) The system of claim [[25]] 26 wherein the
13 specified resources are of different types, and wherein operation (c) comprises:

14 creating different monitors to correspond to the different types of specified
15 resources;

16 and wherein operation (e) comprises:

17 creating different sets of first objects corresponding to the different types of
18 specified resources, each of the different sets of first objects representing states of
19 specified resources of a corresponding type and being maintained by a corresponding
20 monitor.

1 32. (original) The system of claim 31 wherein the operations further
2 comprise:

3 providing to the user a link to each of the monitors.

1 33. (currently amended) The system of claim [[25]] 26 wherein the monitor
2 is implemented as one of a COM object, a thread, and a process.

1 34. (currently amended) The system of claim [[25]] 26 wherein the
2 operations further comprise:

3 initiating the monitor request module using a resource monitor service.

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1 35. (original) The system of claim 34 wherein the operations further
2 comprise:

3 restarting all restartable monitors using the monitor request module.

1 36. (currently amended) The system of claim [[25]] 26 wherein the
2 operations further comprise:

3 determining, using the monitor request module, whether the specified resource
4 is already being monitored by an active monitor previously created; and

5 if the specified resource is already being monitored by an active monitor
6 previously created, setting the currently created monitor to error status using the
7 monitor request module.